

**ABSTRACT OF THE DISCLOSURE**

[0044] A single crystal spinel wafer is disclosed, including a front face and a back face; and an outer periphery having first and second flats. In certain embodiments, the single crystal wafer has a specific crystallographic orientation, and the flats are provided to extend along desired plane sets. The flats may advantageously identify orientation of cleavage planes, and direction of cleavage of cleavage planes.